

## Arithmetic Practice Test: 7

For Grade-8, 9 and 10 students

Time: 45 minutes

1. The ratio of current ages of a father and his son is  $7:2$ . After 5 years the ratio of their ages would be  $8:3$ . Find their current ages.
2. The ratio of land and water of whole earth is  $1:3$  and in the north hemisphere it is  $2:3$ . What is the ratio of land and water in the southern hemisphere?
3. A, B and C scored a total 342 runs in a Cricket match. The ratio of runs made by A and B was  $3:2$ . The ratio of runs made by B and C was also  $3:2$ . Find out how many runs each had made?
4. In a two digit number, the digit in the unit position is half of the digit in the tens position. If the digits interchange their position, then the new number creates a ratio of  $4:5$  with the number 60. Find the number.
5. In an examination, 20000 students were enrolled. But 5% of them were absent. 60% of the total students appeared were passed out. The ratio of the number of students who were passed out in 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> division was  $1:2:3$ . What percentage of students out of the total number of enrolled students was failed?
6. A tea merchant mixed 15kg of china tea, 20kg of Sri Lanka tea and 25kg of Indian tea. A customer buys 24kg of the tea mixture. How much Indian tea would be available to him?
7. A man divides some money to his three sons. He divides the money to the eldest and the second son at the ratio of  $8:7$  and to the eldest and the third son at the ratio of  $5:4$ . In this process, the second son receives \$36 more than the third son. Find out how much each son has received?
8. The ratio of a father and his son's current age is  $4:1$ . Seven years back, the ratio of their ages was  $15:2$ . Find the current age of the son. After how many years the ratio of their ages would be  $5:2$ ?
9. A beaker contains a solution of acid and water. The ratio of acid and water is  $8:3$ . If 28 ml of acid is poured into it, then the ratio of acid and water would be  $5:1$ . What will be the volume of the final solution?

10. A 320liter of acid solution has acid and water in the ratio of 5:3. Initially, 80liter of the solution is taken out. Then, 80liter of water is added into the solution. What will be the ratio of acid and water in the final solution?

#### ANSWERS

1. *Father = 35years , Son = 10years*
2. *1:9*
3. *162, 108, 72*
4. *84*
5. *38%*
6. *10kg*
7. *eldest = \$480, second = \$420, third = \$384*
8. *13years, 13years*
9. *72ml*
10. *15:17*